WHAT IS CLAIMED IS:

- 1. An uncooled optical communication module comprising:
- a plate-shaped thermistor having a positive temperature coefficient so that 5 resistance of the thermistor increases according to an increase of an environmental temperature;
 - a semiconductor chip mounted on an upper surface of the thermistor; and, a driving means for applying a predetermined voltage to the thermistor.
- 2. The uncooled optical communication module as claimed in claim 1, wherein the thermistor has a heating characteristic defined by an equation,

 $P = \frac{V^2}{R}$, wherein P represents a power consumption amount corresponding to a heating value of the thermistor, V represents a voltage applied to the thermistor, and R represents a resistance of the thermistor.

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- 3. The uncooled optical communication module as claimed in claim 1, wherein the driving mean includes:
- a first electrode and a second electrode laminated on both sides of the thermistor; and
- a voltage source connected to the first electrode and the second electrode, which applies a predetermined voltage.

- 4. The uncooled optical communication module as claimed in claim 1, wherein the semiconductor chip is a semiconductor laser chip emitting light through one end of the semiconductor chip.
- 5. An optical communication module comprising:
 - a thermistor having a positive temperature coefficient so that resistance of the thermistor increases according to an increase of an environmental temperature;
 - a semiconductor chip thermally coupled to the thermistor; and,
- a plurality of electrodes, coupled to the thermistor, arranged to connect a voltage 10 source to the thermistor.
 - 6. The optical communication module as claimed in claim 5, wherein the thermistor has a heating characteristic defined by an equation,
 - $P = \frac{V^2}{R}$, wherein P represents a power consumption amount corresponding to a
- 15 heating value of the thermistor, V represents a voltage applied to the thermistor, and R represents a resistance of the thermistor.
- 7. The optical communication module as claimed in claim 5, wherein a voltage source is connected to the first electrode and the second electrode, which applies a20 predetermined voltage to the thermistor.

- 8. The optical communication module as claimed in claim 5, wherein the semiconductor chip is a semiconductor laser chip emitting light through one end of the semiconductor chip.
- 5 9. The optical communication module as claimed in claim 5, wherein the semiconductor chip is a semiconductor optical amplifier.